

What is claimed is:

1. A position calculating method of measuring  
reception timings of signals transmitted and received  
between a base station and a mobile station and calculating  
5 the position of the mobile station by using the reception  
timings and position of the base station, comprising the  
steps of:

obtaining address information items necessary to  
specify incoming signals used for the position calculation;  
10 analyzing the address information items included in  
the incoming signals; and

selecting incoming signals used for position  
calculation in accordance with a result of comparing the  
obtained address information items with the address  
15 information items analyzed in accordance with the incoming  
signals.

2. The position calculating method according to claim  
1, wherein

the base station;  
20 measures reception timings of signals incoming from  
the mobile station,

analyzes the destination information and/or source  
information included in the incoming signals as the address  
information items, and

selects incoming signals used for position calculation in accordance with a result of comparing the obtained address information items with the destination information and/or source information analyzed in  
5 accordance with the incoming signals.

3. The position calculating method according to claim 1, wherein  
the base station;  
measures reception timings of signals incoming from  
10 the mobile station,  
accumulates the incoming signals,  
analyzes the address information items included in the incoming signals, and  
selects the accumulated incoming signals by using the  
15 address information items.

4. The position calculating method according to claim 3, wherein  
incoming signals are selected by using the order in which the incoming signals are accumulated and the order in  
20 which the address information items are analyzed and thereby relating the accumulated incoming signals with the address information items.

5. The position calculating method according to claim 3, wherein

incoming signals are selected by using the reception timings of the incoming signals and times when the address information items are analyzed and thereby relating the accumulated incoming signals with the address information items.

5    6. The position calculating method according to claim 1, wherein  
the mobile station;  
measures reception timings of signals incoming from  
10 the base station,  
accumulates the incoming signals,  
analyzes the address information items included in the incoming signals, and  
selects the accumulated incoming signals by using the  
15 address information items.

7. The position calculating method according to claim 6, wherein  
incoming signals are selected by using the order in which the incoming signals are accumulated and the order in  
20 which the address information items are analyzed and thereby relating the accumulated incoming signals with the address information items.

8. The position calculating method according to claim 6, wherein

incoming signals are selected by using reception  
timings of the incoming signals and times when the address  
information items are analyzed and thereby relating the  
accumulated incoming signals with the address information  
5 items.

9. The position calculating method according to claim  
1, wherein

the address information items use MAC addresses.

10. A receiver for receiving a signal transmitted from  
10 a mobile station in order to calculate the position of the  
mobile station by using the reception timing and reception  
position of the signal transmitted from the mobile station,  
comprising:

reception timing measurement unitunit for measuring  
15 the reception timing of the signal incoming from the mobile  
station;

information obtainment unitunit for obtaining the  
address information items necessary to specify incoming  
signals used for the position calculation;

20 storage unitunit for storing the incoming signals;  
address information analysis unitunit for analyzing  
the address information items included in the incoming  
signals; and

control unitunit for selecting incoming signals used  
25 for position calculation in accordance with a result of

comparing the obtained address information items with the address information items analyzed in accordance with the incoming signals.

11. The receiver according to claim 10, wherein  
5 the information analysis unitunit analyzes the destination information and/or source information included in the incoming signals as the address information items, and

the control unitunit selects incoming signals used  
10 for position calculation in accordance with a result of comparing the obtained address information items with the destination information and/or source information analyzed in accordance with the incoming signals.

12. The receiver according to claim 10, wherein the  
15 receiver includes storage unitunit for storing the incoming signals, and

the control unitunit selects the stored incoming signals by using the analyzed address information items.

13. The receiver according to claim 12, wherein  
20 the control unitunit selects incoming signals by using the order in which the incoming signals are stored in the storage unitunit and the order in which the address information items are analyzed and thereby relating the stored incoming signals with the address information items.

25 14. The receiver according to claim 12, wherein

the control unit selects incoming signals by using reception timings of the incoming signals and the time when the address information items are analyzed and relating the stored incoming signals with the address information items.

15. A position calculating apparatus for calculating the position of a mobile station by using reception timings and reception positions of signals transmitted and received between a base station and the mobile station, wherein the address information items necessary to specify incoming signals used for the position calculation are communicated to the base station and/or mobile station.